ECS Configuration C	nange Request				Page 1 of		Pag	e(s)	
1. Originator	2. Log Date:	3. CCR #:		4. Rev:	5. Tel:		6. Rm #:	7. Dept.	
Robert Cole	9/5/02	02-0757		_	301-925-0799	2	2110C	SE/HW	
8. CCR Title: Reconfigure the NSIDC SAN filesystem									
9. Originator Signature/Date			10. Class		11. Type:	1. Type: 12. Nee		eed Date: 9/30/02	
Robert Cole /s/ 9/5/02			II CO		CCR				
13. Office Manager Signature/Date			14. Category o		DI			iority: (If "Emergency"	
Randy Haynes /s/ 9/5/02				Update ECS Baseline Doc. fill in Block 27). Routine					
16. Documentation/Drawings Impacted:			17. Schedule 18. CI(s) Affected:SANHW mpact:						
, ,			to Customer: 21. Estimated Cost:						
N/A			None - Under 100K						
22. Source Reference: NCR (attach) Action Item Tech Ref. GSFC Other:									
23. Problem: (use additional Sheets if necessary) The NSIDC SAN filesystem (/datapool) configuration deviates from the configuration currently extant at the other DAACs. Due to space efficiency considerations, the filesystem configuration has been changed from a striped to round-robin configuration. Specifically, the change to be implemented is to rebuild the QFS filesystem based on 'mr' rather than 'g' devices.									
24. Proposed Solution: (use additional sheets if necessary) See next sheet.									
25. Alternate Solution: (use additional sheets if necessary) Leave the NSIDC configuration as a deviation from the rest of the program. The space inefficiency will be minimal due to the small number of devices in the current NSIDC configuration.									
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) The NSIDC configuration will not match the rest of the ECS site configurations.									
27. Justification for Emergency (If Block 15 is "Emergency"):									
28. Site(s) Affected: Ded									
29. Board Comments:				30. V	Nork Assigned T	o: 3	31. CCR C	losed Date:	
32. EDF/SCDV CCB Chair (S	ign/Date): D		proved d/ECS	App/Co	m. Disapproved	Withd	draw Fwd	/ESDIS ERB	
	3. M&O CCB Chair (Sign/Date): Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS EF Fwd/ECS						/ESDIS ERB		
34. ECS CCB Chair (Sign/Da	. ECS CCB Chair (Sign/Date): Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERI						/ESDIS ERB		

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Fwd/ESDIS

ADDITIONAL SHEET

— Originator:

Rev:

7. Rebuild the QFS filesystem by executing the following command:

10. Restore any data to /datapool that had been backed up.

CCR #:

02-0757

Telephone: Office:							
Title of Change:							
1. Backup any data in /datapool that needs to be available after the filesystem reconfiguration. All data resident in the filesystem will be lost when the new filesystem is built on the existing disks.							
2. Unmount the SAN filesystem (n0sas01:/datapool) on all NFS clients.							
3. Unshare /datapool from n0sas01.							
4. Unmount /datapool on n0sas01.							
5. Modify /etc/opt/LSCsamfs/mcf as follows:							
** Original MCF file ** qfs1							
** New MCF file ** qfs1							
** Original /datapool mount parameters ** qfs1 - /datapool samfs - yes stripe=1							
** New /datapool mount parameters ** qfs1 - /datapool samfs - yes stripe=0							

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/opt/LSCsamfs/sbin/sammkfs -a 576 qfs1

8. Mount and share /datapool on n0sas01.

9. Restore /datapool client mounts.